

Maths 



Play , Think & Learn With

BAKKAR

كراسة Skills Part هدية مجانية مع الكتاب

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Bakkar Maths First Term

Prim 3

Price L.E 69

Parent's Guide

BAKKAR

Maths

3



Contains Maths Journal and discover applications

Primary 3 First Term



Data representation

Key Vocabulary

Axe	المحور
Bar graph	التمثيل البياني بالأعمدة
Centimeter	سنتيمتر
Check list	قائمة التحقق
Estimate	تقدير
Evaluation	التقييم
Greater than	أكبر من
Head	رأس
Horezontsl	أفقي
Increasing	الزيادة
Items	العناصر
Key	المفتاح
Length	الطول
Line	الخط
Measure	المقياس

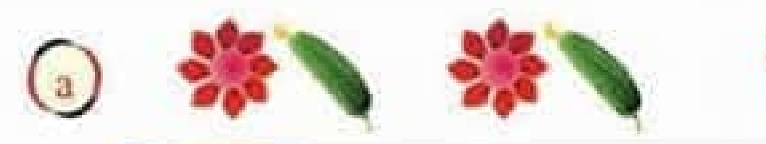
Metre	متر
Millimeter	المليمتر
Number line	خط الأعداد
Number pattern	نمط الأعداد
Number plots	مخطط التمثيل بالنقاط
Numeral data	البيانات العددية
Pattren	النمط
Pictograph - Picture graph	التمثيل البياني بالصور
Preserverance	المثابرة
Refrences marks	العلامة المرجعية
Repeating	التكرار
Smaller than	أصغر من
Statistical signs	علامات الإحصاء
Table	الجدوا
Visual pattern	النمط البصري

Content

- Bakkar Self-Check
- Bakkar Exercise on lessons
- Exercise insipred from Math Journal
- Exercise inspired from Discover



Activity 1 Notice the pattern :

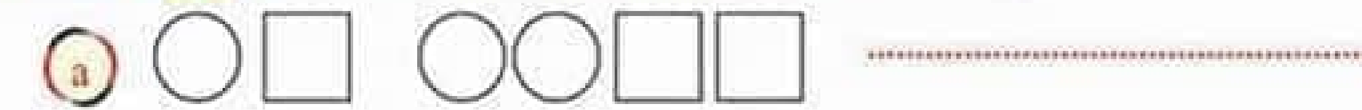
(a) 



(b) 

Hint The increasing of shapes in each pattern.

Exercise 1 Notice and complete the pattern :

(a)  ....

(b) △ ○ □ △ △ ○ ○ □ □ ....

(c) 10 , 20 , 30 , ... , ... , ...

(d) 2 , 4 , 6 , ... , ... , ...

(e) 5 , 10 , 15 , ... , ... , ...



Activity * Notice the pattern then complete :



محمد عوض

Exercise 2 Predict the number of oranges in the last figure :

The number	1	2	3	....

Hint Add 1 orange each pattern

Exercise 3 Predict the number of bells in the last figure :

The number	1	3	5	....

Hint Add 2 bells each figure.

Exercise 4 Complete the fourth :

Math Journal

The number	4	9	16

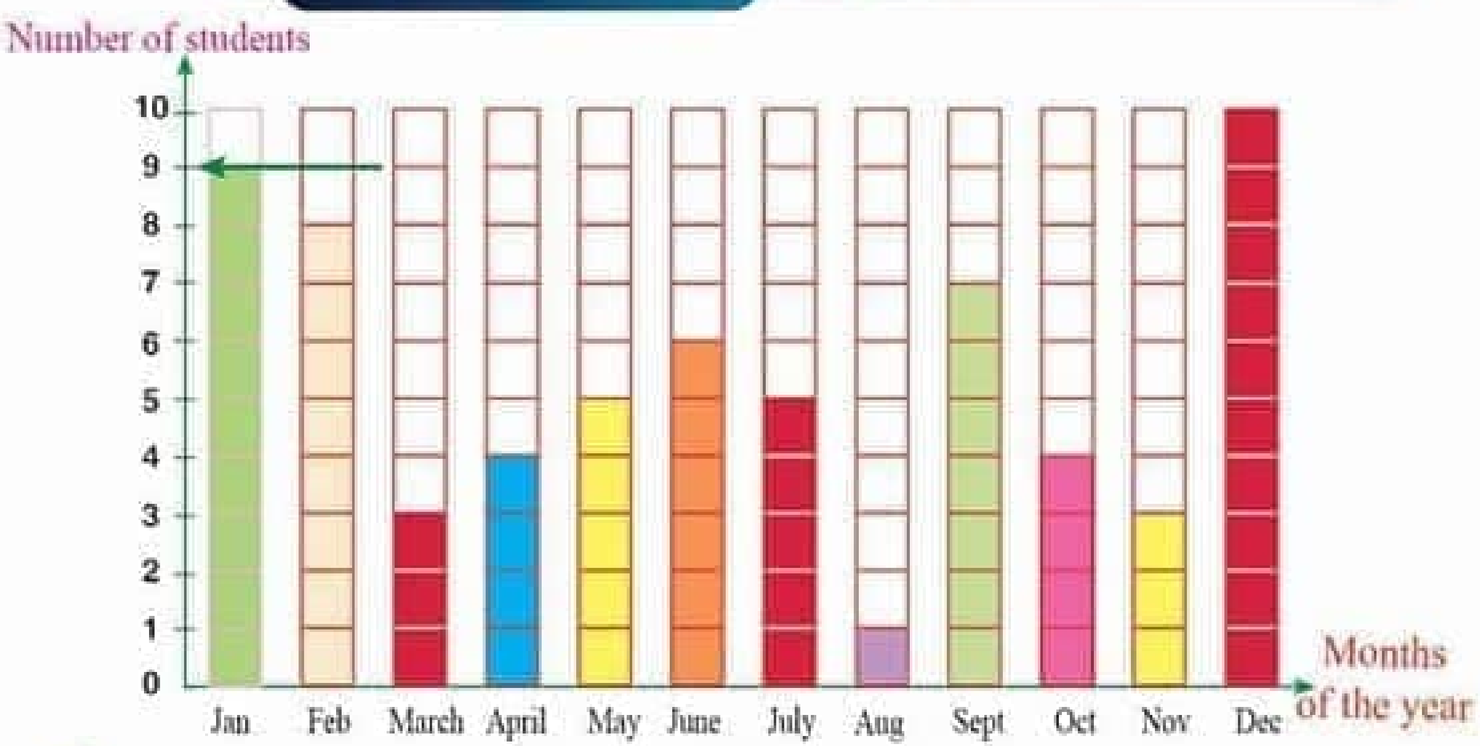
The number ....

Hint Add Row has 2 counters more than the base row :



Make a bar graph

Activity 2 By asking some pupils about their birthdays and write the number of each month then represent it by bar graph :



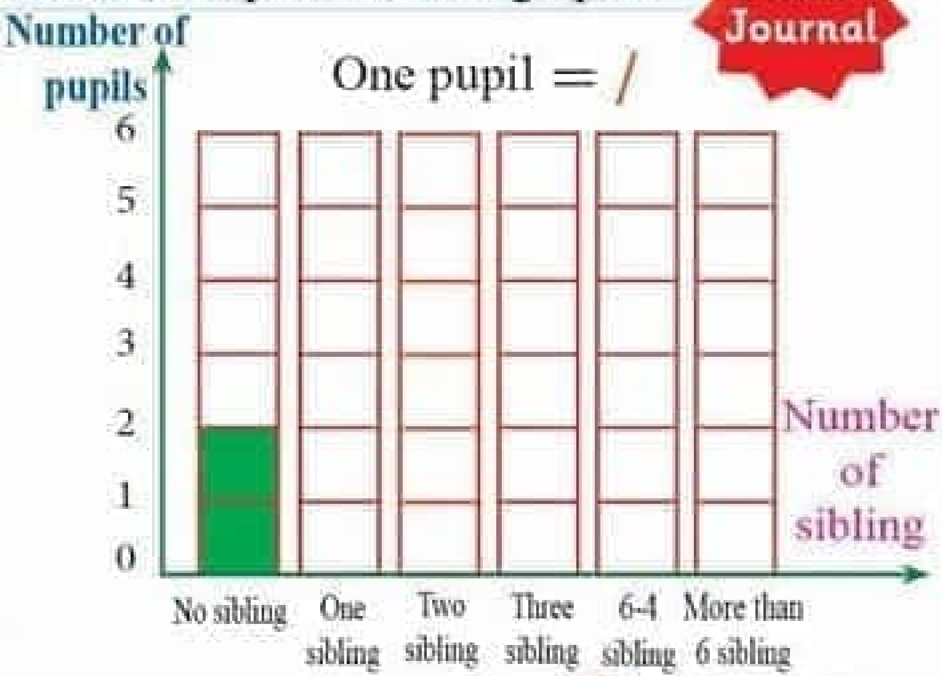
a) Number of student whose birthday in march = ...

b) The month which has the most number of births = ...

Exercise 5 By asking some pupils about their siblings and write it at the table complete the bar graph :

Math Journal

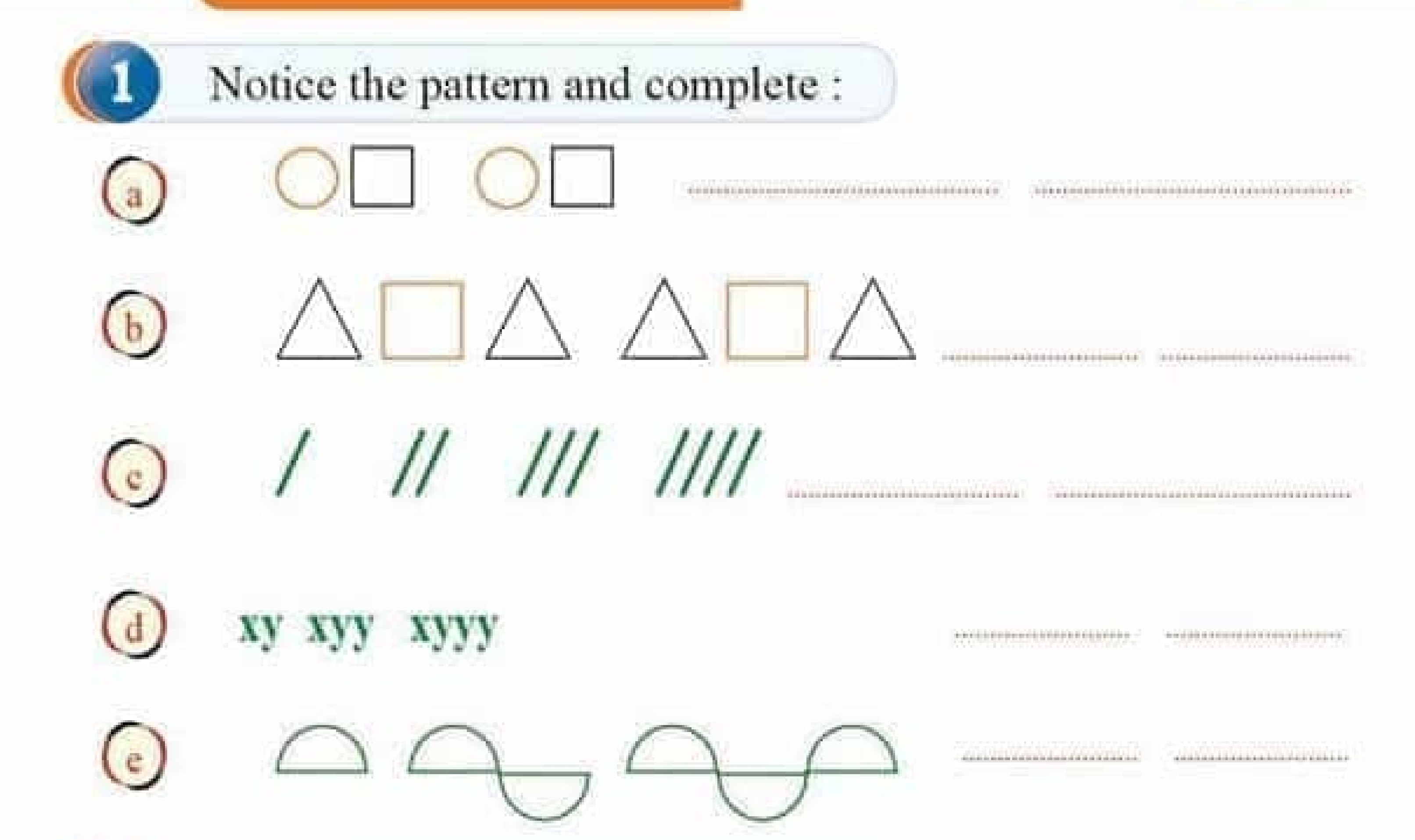
Number of sibling	Number of pupils	
No sibling	//	2
One sibling	////	4
Two sibling	///	3
Three sibling	~~////~~	5
sibling 6-4	///	3
More than 6 sibling	/	1



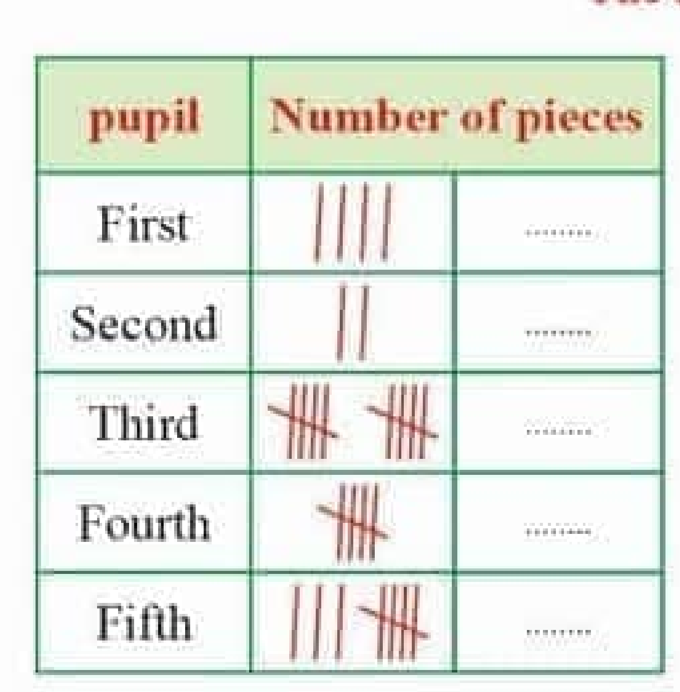


Self - check on lesson (1, 2)

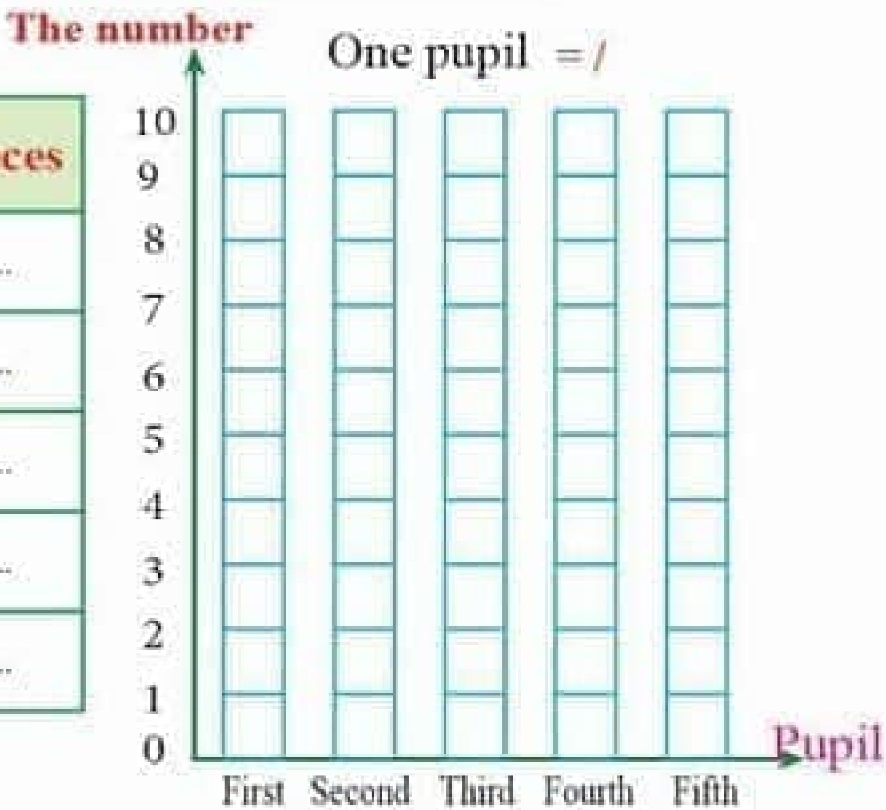
1 Notice the pattern and complete :



2 Complete the table and colour the bar graph :



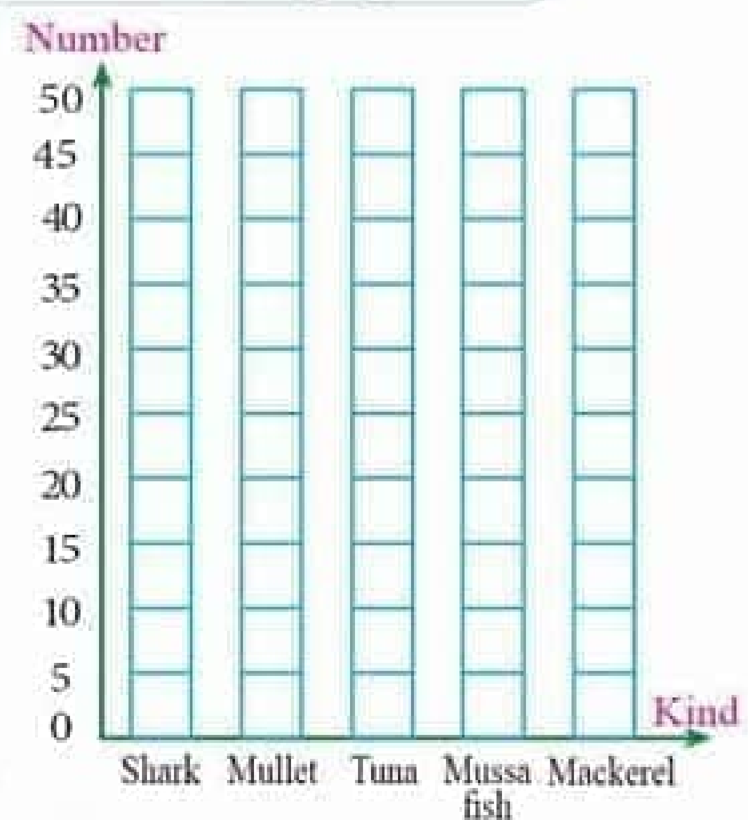
pupil	Number of pieces	
First	𝍷𝍷𝍷𝍷	....
Second	𝍷𝍷	....
Third	𝍸 𝍸	....
Fourth	𝍸	....
Fifth	𝍷𝍷𝍷 𝍸	....





3 The following table shows the numbers of some types of fish in a restaurant, draw the bar graph :

Kind of fish	Number of fish	
Shark	𝍸	.....
Mullet	𝍸 𝍸 𝍸	.....
Tuna	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸	.....
Mussa fish	𝍸 𝍸	.....
Mackerel	𝍸 𝍸 𝍸 𝍸 𝍸	.....

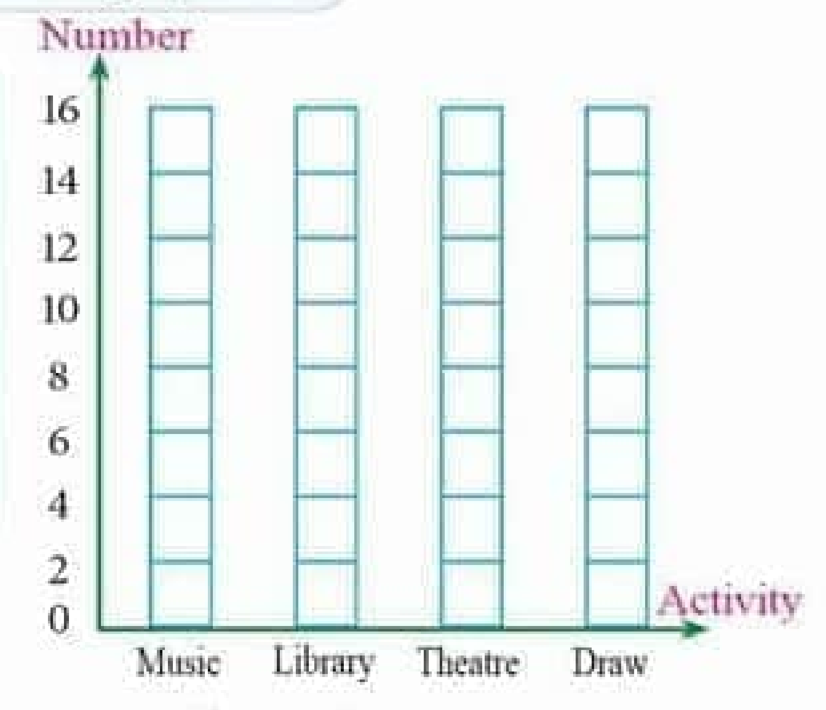


(a) How many tuna and sharks together ? ....

(b) What is the difference between the number of Tuna and Mussa? ....

4 From the table draw the bar graph :

Activity	Number	
Music	𝍸 |||	.....
Library	𝍸 𝍸 ||	.....
Theatre	𝍸 𝍸 ||||	.....
Draw	||||	.....



- Arrange the activities in an ascending order :

....



Lesson (3 , 4)

Picture graph - line plots

Activity 1 The teacher ask the pupils about there prefer sweet and from the following table , complete the picture graph :

My favorite desserts	
Basbousa	IIII
kunafa	IIII 𝍸
Sweet potatoes	II 𝍸 𝍸
Sweet feteer	III
Rice pudding	𝍸
Om Ali	𝍸 𝍸

Math Journal

Basbousa	◍ ◍
kunafa	◍ ◍ ◍ ◍ ◗
Sweet potatoes	◍ ◍ ◍ ◍ ◍ ◍
Sweet feteer	
Rice pudding	
Om Ali	

Key: ◍ = 2 pupils , ◗ = 1 pupil

Exercise 1 Complete the picture graph :

Activity	Number of pupils
Sporty	IIII
Theatrical	III
Singling	II 𝍸
Musically	I 𝍸

Sporty	
Theatrical	□ ⊏
Singling	
Musically	□ □ □

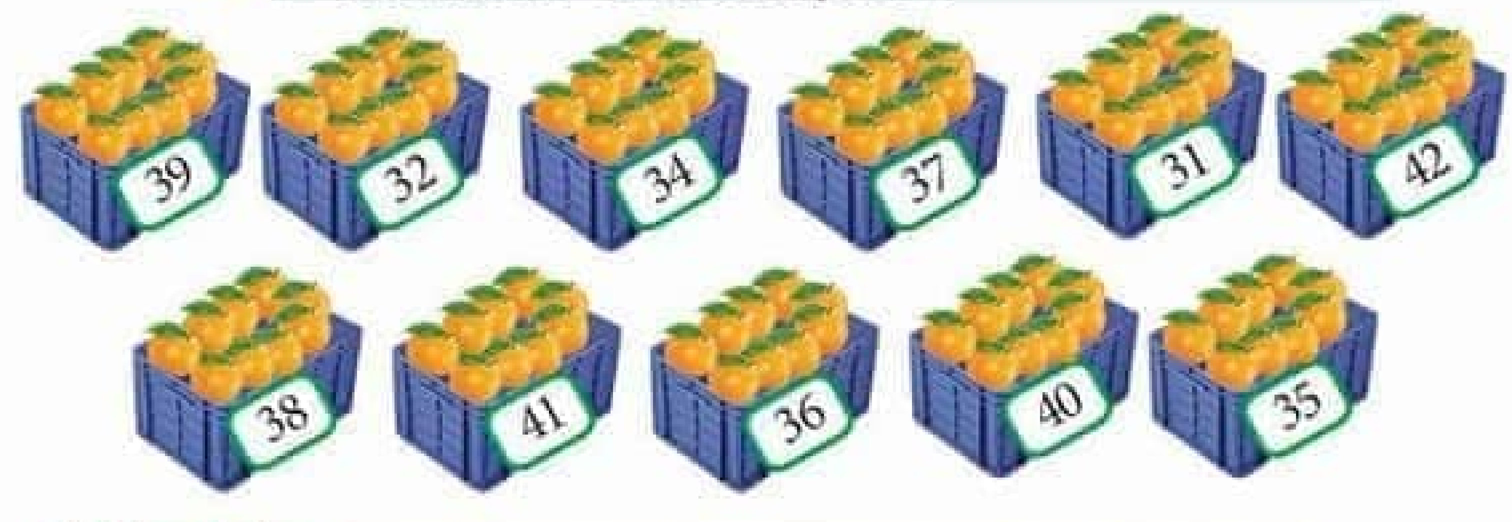


Key: □ = 2 pupils , ⊏ = 1 pupil



The line plots

Exercise 2 Some boxes each has number of oranges write the number on the line plots :



Line plots : ** Start by the small number from the left .

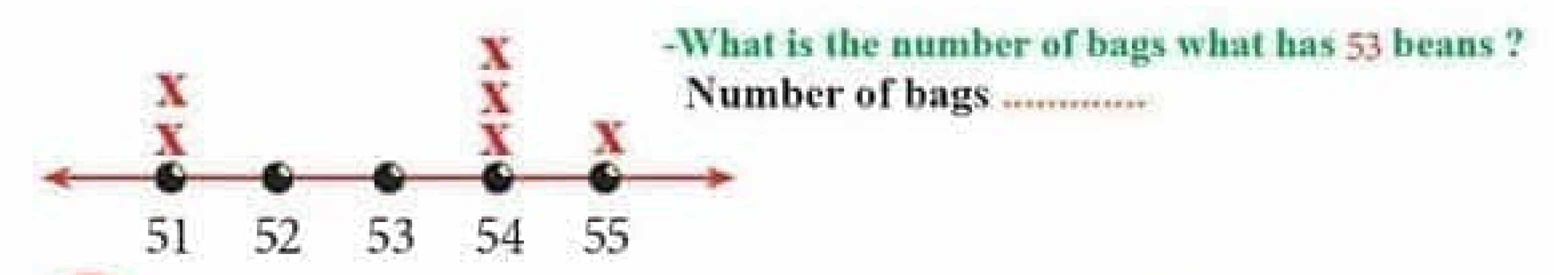
31 42

Exercise 3 Some bags each has a number of beans as shown complete the line plot using **X** :



X means **1 bag**

Line plot of beans



-What is the number of bags what has 53 beans ?

Number of bags ....

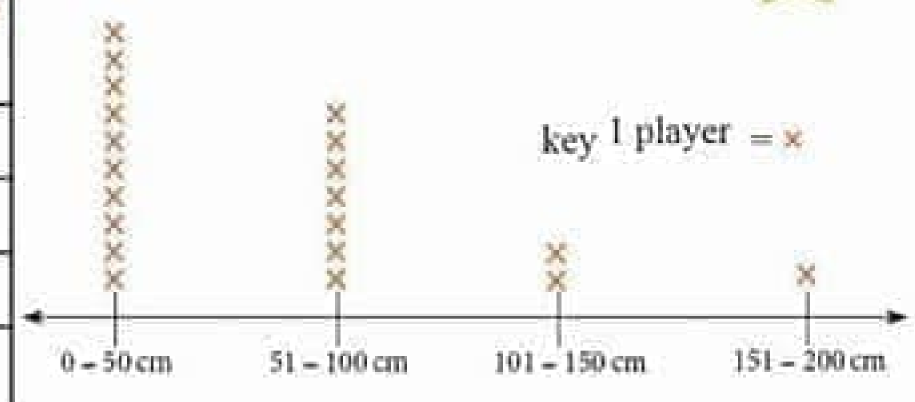


Activity 2 A number of players competed in a jumping competition, and the students recorded the height that each player reached when jumping in the following table :

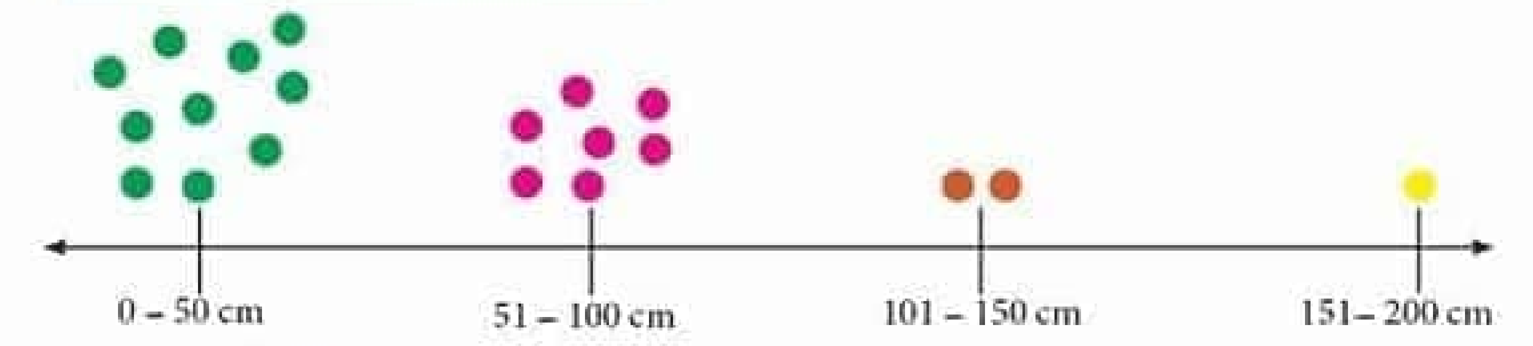
Discover book

Represention by ×

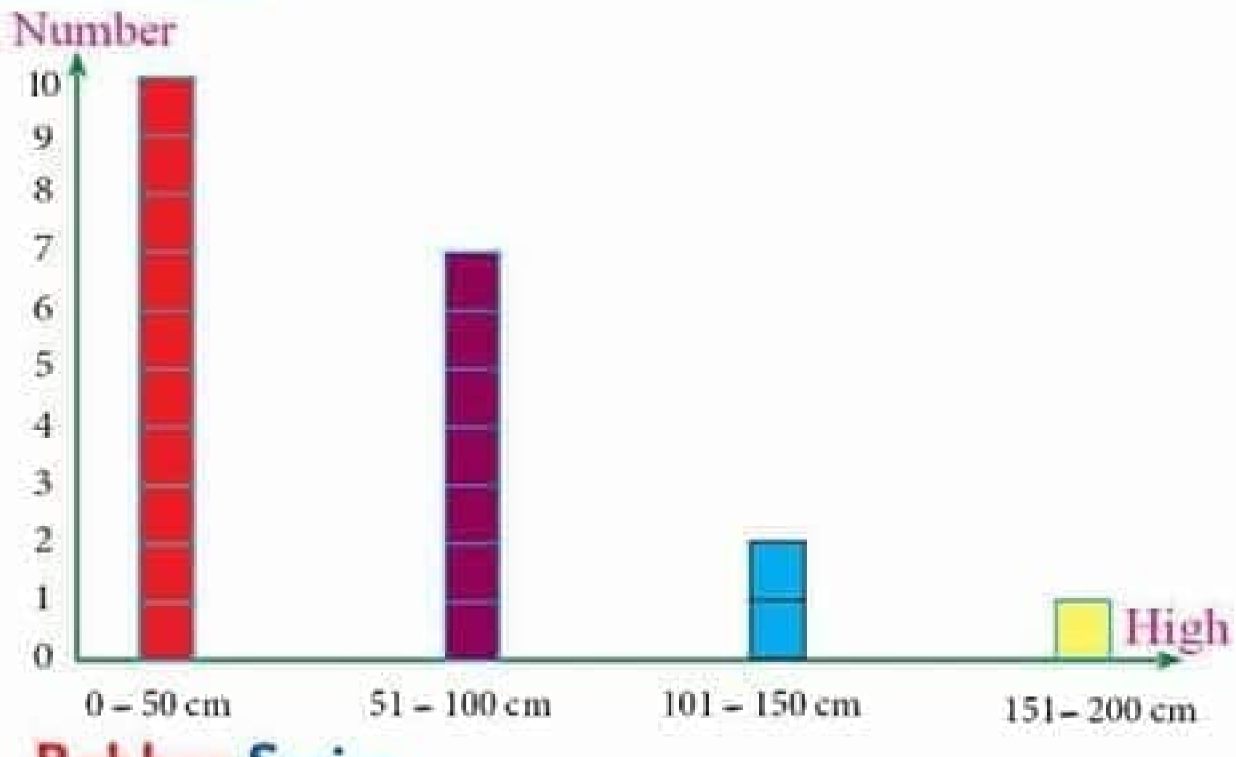
Height of jumping	Number of players
0 - 50 cm	10
51 - 100 cm	7
101 - 150 cm	2
151 - 200 cm	1



Dot representation



Bar graph

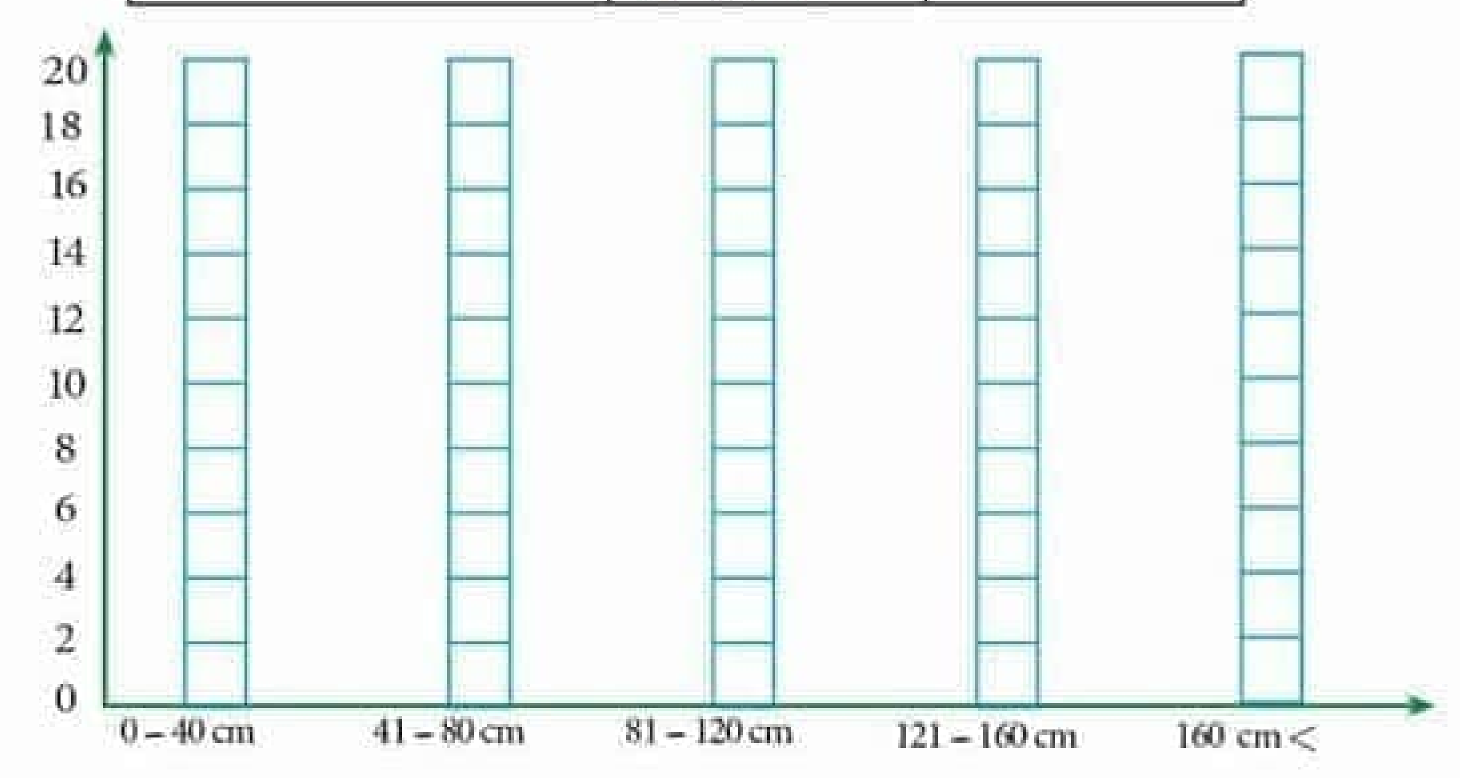




3 The answers of 52 pupils in your class recorded the distance that each of them jumped by placing the marks 卌 in the correct row in the next chart complete the data representation graph and answer the following :

Discover book

Jumping	Number of pupils	
0 - 40 cm	卌 |||	....
41 - 80 cm	卌 卌 卌|	....
81 - 120 cm	卌|	....
121 - 160 cm	卌 卌	....
160 <	卌 卌 ||	....



(a) How far has the most number of pupils scored ? ....

(b) How far did the least pupils scored ? ....

(c) How many students jumped 121 or more ? ....



(5 , 6 , 7)

Measuring Length using cm , m - Estimate the lengths .

Activity 1 Length of the students hand from wrist to middle finger :

X = One student

10 11 12 13 14 15

Length in cm

From the line plots complete :

(a) Number of Student who's hand length 11 cm = ...

(b) Number of Student who's hand length 14 cm = ...

(c) Number of Student who's hand length 15 cm = ...

(d) The Number of students who's hand length less than 13 cm = 3+3+1 = ...

(e) The Number of students who's hand length between 13 and 15 cm = ...

Exercise 1 Use ruler to find the length of the following :

(a) .... cm

(b) .... cm

(c) .... cm

(d) .... cm

(e) .... cm

The order of the lengths from shortest to longest :

.........., ..., ..., ..., ...

Estimate the length

Centimetre (cm) : Used to measure the short lengths .

Example : the length of a pen 16 cm .

Metre (m) :

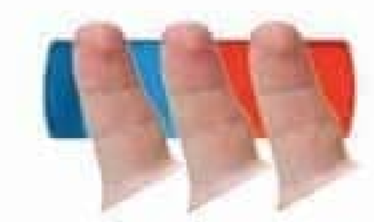
Example : the width of the road about 20 m the height of the building about 30 m .



In each of the following read the measure on the ruler [estimated length] then write the actual length :



The actual = 4 cm



The estimate length about= 3 cm





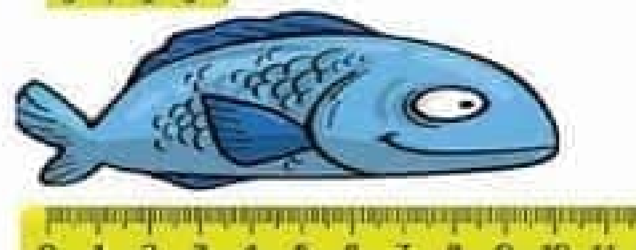




the estimate .... cm

the actually .... cm





the estimate .... cm

the actually .... cm

Exercise 2 Choose the estimated length :

(a) The width of the road is .... m (1 , 6 , 600)

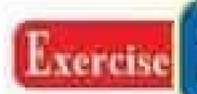
(b) The length of Lamppost is .... m (5 , 50 , 500)

(c) The length of my father car is .... m (4 , 9 , 15)

(d) The length of piece cloth for my mother is .... m (3 , 40 , 35)







Choose the suitable measurement unit :

Image	Meters (m) or Centimeters (cm)
	....
	....
	....

Exercise 4 Complete as in (a) :

1 meter = 100 cm

(a) 4 m = 400 cm .

(b) 9 m = ... cm .

(c) 1 m = ... cm .

(d) 3 m = ... cm .

(e) Half of meter = ... cm .

Exercise 5 Complete as in the example :

Example : 300 cm = 3 m

(a) 500 cm = ... m

(b) 600 cm = ... m

(c) 700 cm = ... m

(d) 400 cm = ... m

(e) 100 cm = ... m

(f) 900 cm = ... m



Activity 3 Arrange the following in an ascending order :

(a) 5 m , 3 m , 7 m , 2 m .

Solution The order : 2 m , 3 m , 5 m , 7 m

(b) 20 cm , 35 cm , 40 cm , 15 cm .

Solution The order : 15 cm , 20 cm , 35 cm , 40 cm

(c) 3 m , 200 cm , 5 m , 700 cm .

Solution 3 m = 300 cm , 5 m = 500 cm

The order : 200 cm , 3 m , 5 m , 700 cm .

Activity 4 Answer the following :

(a) If Iyad is (1 m and half meter). What is his tall in centimetre ?

Solution : Iyad tall = 100 + 50 = 150 cm .

(b) Ahmed is 186 cm high , Mostafa is 181 cm high ,

Find the difference between there high of them?

Solution : Ahmed height = 186 cm , Mostafa height = 181 cm

The Difference : 186 − 181 = 5 cm .

Exercise 6 Answer the following :

Two pieces of cloth with 130 cm , 250 cm length Find :

(a) There sum (b) There difference

Solution : (a) the sum = ... + ... = ... cm.

(b) the difference = ... − .... = ... cm.

Self - check on lesson (5 , 6 , 7)

1 Complete :

a) 5 m = ... cm
b) 7 m = ... cm
c) 3 m = ... cm
d) 6 m = ... cm
e) 2 m = ... cm
f) 8 m = ... cm

2 Complete :

a) 600 cm = ... m
b) 800 cm = ... m
c) 400 cm = ... m
d) 300 cm = ... m
e) 500 cm = ... m
f) 900 cm = ... m

3 Use the ruler to estimate the lengths then write the exact length :



a)

The estimation .... cm

The exact .... cm

b)

The estimation .... cm

The exact .... cm

4 Arrange from the longest to the shortest :

[3 m , 200 cm , 5 m , 700 cm]

The order : .... , ... , ... , ...

5 Compare using [< , > , =] :

(a) 300 cm .... 2 m

(b) 50 m .... 50 cm

(c) 100 cm .... 300 cm

6 Answer the following :

(a) A car with (3 m and 20 cm length) . How long the width in cm ?

Solution : 3 m = ... cm

The length = ... + ... = 320 cm .

(b) The width of the school door is (200 cm).

How long the width in meter ?

Solution : The width = ... m



7 Write the suitable measurement unit :



Image	Meter (m) or centimetre (cm)
	....
	....
	....



Lesson (8, 9, 10)

Millimetre

Exercise 1 Measure the pieces of string and record their length the complete the line plot :

	String	Length in cm
a		.... cm
b		.... cm
c		.... cm
d		.... cm
e		.... cm
f		.... cm
g		.... cm
h		.... cm
i		.... cm
j		.... cm







Millimeter



Millimetre (mm) Used to measure the very short lengths .

Example : the thickness of nail is 3 mm .

1 cm = 10 mm or 1 cm = 10 mm

2 cm = 20 mm , 3 cm = 30 mm

Exercise 2 Choose the suitable measurement unit :

(a) The thickness of a nail measure with .... (mm - cm - m)

(b) The length of the book measure with ...... (mm - cm - m)

(c) The length of the ant measure with .... (mm - cm - m)

(d) Thickness of the power cord measure with .... (mm - cm - m)

(e) The length of my grandfather's stick measure with .... (mm - cm - m)

Exercise 3 Choose the correct answer :

(a) My father high (2 m - 2 mm - 2 cm)

(b) The length of (5 mm - 5 cm - 5 m)

(c) The length of (30 cm - 30 mm - 30 m)

(d) The thickness of the book (10 m - 10 mm - 10 cm)

(e) The height of my home (21 mm - 21 m - 21 cm)

Activity 1 The line plots show the length of the foot in cm to some pupils and their number :



1 pupils = x

			x		
			x	x	x
			x	x	
	x	x	x	x	x
	x	x	x	x	x
x	x	x	x	x	x
27	28	29	30	31	32

length in cm

From the figure complete :

(a) The number of pupils with foot 29 cm = ...

(b) The number of pupils with foot 30 cm = ...

(c) The number of pupils with foot 27 cm = ...

(d) The number of pupils with foot less than 29 cm = ... + ... = ...

(e) The number of pupils whose foot between 30 cm and 32 cm is
= ...... + ... + ... = ...

Exercise 4 Complete the following :

(a) 100 cm + 100 cm = ... cm = ... m

(b) 150 cm + 250 cm = ... cm = ... m

(c) 20 mm + 10 mm = ... mm = ... cm

(d) 30 mm + 30 mm = ... mm = ... cm

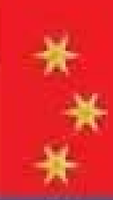
Solution

(a) 100 cm + 100 cm = 200 cm = 2 m

(b) 150 cm + 250 cm = 400 cm = 4 m

(c) 20 mm + 10 mm = 30 mm = 3 cm

(d) 30 mm + 30 mm = 60 mm = 6 cm



Exercise 5 Choose the correct answer :

ⓐ 9 m = ... cm. (9 , 90 , 900)

ⓑ 6 cm = ... mm. (6 , 60 , 600)

ⓒ 30 mm = ... cm. (3 , 30 , 300)

ⓓ 200 cm = ... m. (2 , 20 , 200)

ⓔ 20 mm = ... cm. (2 , 20 , 200)

Exercise 6 Put (< , > , =) :

ⓐ 600 cm ☐ 5 m .



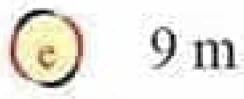
ⓑ 40 mm ☐ 4 cm .

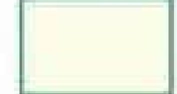


ⓒ 750 cm ☐ 8 m .



ⓓ 5 cm ☐ 60 mm .





ⓔ 9 m ☐ 900 cm .



Exercise 7 Arrange the following :

ⓐ 14 mm , 17 m , 8 mm , 29 mm .

Ascendingly : .... , ... , ... , ...

ⓑ 2 cm , 10 mm , 5 cm , 70 mm .

Descendingly : .... , ... , ... , ...

Self - check on lesson (8 , 9 , 10)

1 Choose the suitable measurement unit :

(a) The length of pencils measure with .... (mm - cm - m)

(b) The length of bottle measure with .... (mm - cm - m)

(c) The length of piece of cloth can be .... (4 cm - 4 mm - 4 m)

2 Complete :

(a) 5 m + ... cm = 7 m

(b) 200 cm + ... m = 5 m

(c) 80 cm - .... cm = 50 cm

(d) 5 cm + ... mm = 7 cm

(e) 30 mm + ... mm = 60 mm

(f) 50 mm - .... cm = 2 cm

(g) 6 m - .... cm = 500 cm

Remember

The metre = 100 cm

The centimetre = 10 mm

3 Put (< , > , =) :

(a) 5 cm ☐ 50 mm

(b) 50 cm ☐ 1 m

(c) 10 mm ☐ 10 cm

(d) 10 m ☐ 10 cm

(e) 9 cm ☐ 9 mm .



4 Complete :

(a) 200 cm - 100 cm = ... cm = ... m

(b) 5 cm - 3 cm = ... cm = ... mm

(c) 7 m - 3 m = ... m = ... cm

(d) 700 cm - 500 cm = ... cm = ... m

(e) 40 mm - 30 mm = ... mm = ... cm

5 Arrange the following in an ascending order :

(a) 3 m , 5 m , 1 m , 2 m . ...

(b) 40 cm , 10 cm , 50 cm , 70 cm . ...

(c) 10 mm , 20 mm , 80 mm , 60 mm . ...

(d) 7 m , 100 cm , 9 m , 800 cm . ...

(e) 17 cm , 7 mm , 70 cm , 70 mm . ...

6 Join :

1 Meter and half	4 m
300 cm	100 cm
1 m	150 cm
400 cm	2 m and 100 cm

Self - check 1 Chapters 1

1 Choose :

a) 7 m = ... cm (7 , 70 , 700)

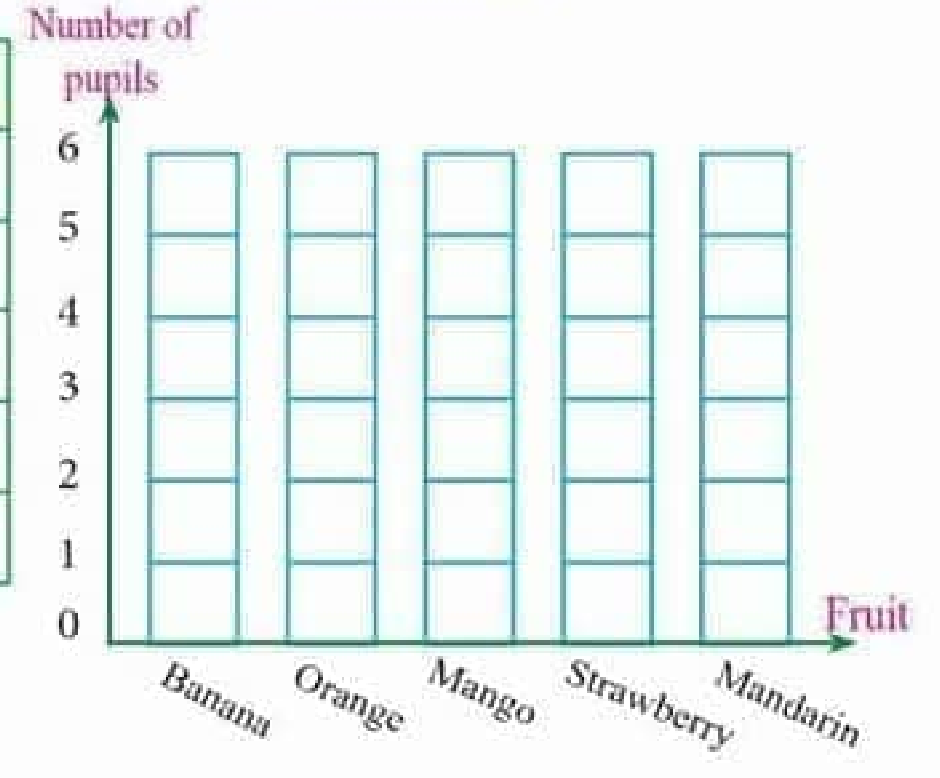
b) 5 cm = ... mm (5 , 50 , 500)

c) 90 mm = ... cm (9 , 90 , 900)

d) 300 cm = ... m (3 , 30 , 300)

2 Complete the table and colour the graph :

Fruit	Number of pupils	
Banana	||||	
Orange	𝍸 |	
Mango	|||	
Strawberry	𝍸	
Mandarin	𝍸	



3 A car of (4 m and 40 cm). What its length in cm ?

Solution :

The length of the car = ... + ...

= .... cm .





1 Complete :

(a) 500 cm - 300 cm = ... cm = ... m

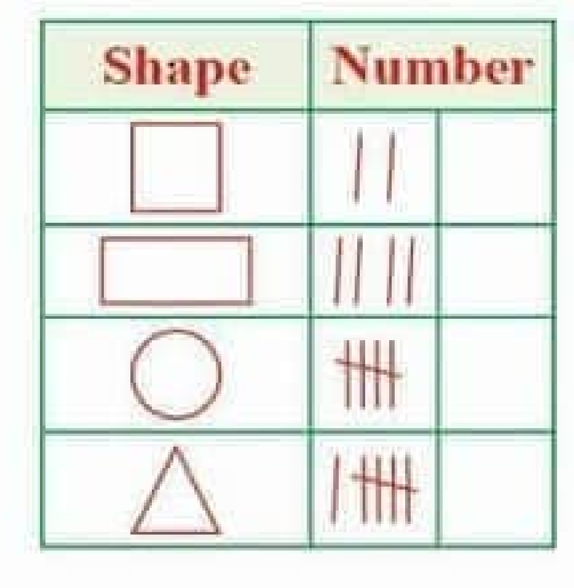
(b) 9 cm - 4 cm = ... cm = ... mm

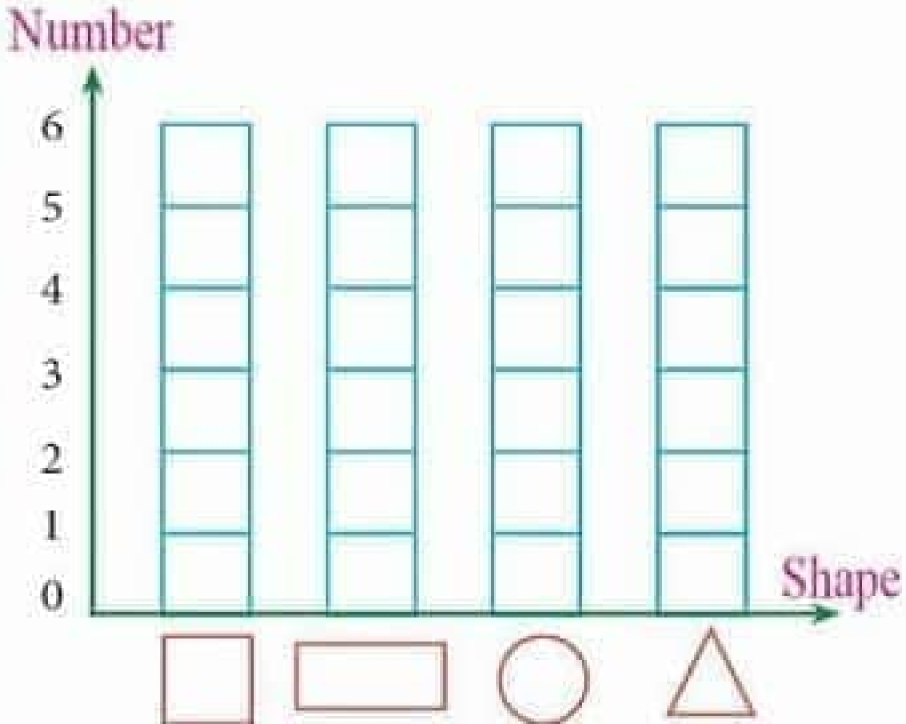
(c) 6 m - 4 m = ... m = ... cm

(d) 800 cm - 100 cm = ... cm = ... m

(e) 70 mm - 3 cm = ... mm = ... cm

2 Complete the table and colour the graph :





3 Choose :

6 meters and half = ... cm .

650 560 605

For more exercises follow the Bakkar Self- check page (210)

